### Classifying Montana's Fishing Streams

Presented at Annual Meeting of Great Plains Fishery Workers, Miles City, Montana, February 26 and 27, 1958, by Joe M. Halterman, Fishery Biologist, MRBS, (BSFW), as a member of Montana Stream Rating Committee.

#### INTRODUCTION

Montana has long boasted of 20,000 miles of fishing streams. As the years go by the boast attracts less and less attention simply because so many other states also claim 20,000 miles of fishing streams! Neither the basis of the estimate nor its accuracy is being questioned, but let's pause for a minute and consider some questions that become more pressing every day. What is the over-all effect of other water uses on Montana's fishery resource? What is the significance of lopping off 10, 20, and 30 miles of fishing streams per year? Where is our fishing located? Just how good is it? How much of it do we have? Until we know what we've got to work with, that is, until we inventory and classify fishing waters, these questions will go largely unanswered. Fishery conservationists have wailed long and loud over the "tag along" position they occupy in planning for new and additional uses of our waters. There is little prospect for improving fishery's position in comprehensive planning until we do what other water interests have been doing all along. That is, to inventory and classify our waters from the standpoint of recreational fishing. Such an inventory must be designed so as to establish the relative positions of all streams classified, and the expected contribution of each to the recreational fishery resource of the state.

Much thought and effort has been given to this task over the years in Montana. Much data have been gathered, and much more is available. The major difficulty has been to devise a system of appraisal that would be simple enough for practical application, broad enough to include all factors contributing to a stream's worth as a fishing stream, and capable of being portrayed in an understandable manner.

More recently a committee composed of personnel of the Montana State Fish and Game Department, Montana State College, and Missouri River Basin Studies has explored the various possibilities and has developed jointly the method outlined below.

#### METHOD

The following method of stream classification is based on a rating of four factors in terms of existing and expected conditions followed by the consideration of these factor ratings in determining classification.

The factors are: (1) availability to fishermen, (2) esthetics, (3) use, and (4) productivity. For purposes of this discussion the words "factor", "rating", "class", and "stream" are defined as follows:

<u>Factors</u> are the four major headings, esthetics, availability, use and productivity, each of which is to be rated on a judgment appraisal of potential quality.

Factor ratings are the actual letters, a, b, c, etc., assigned to each factor.

Class is the final classification based on a judgment appraisal of the relative significance of each of the four "Factors".

Stream - any course of flowing water regardless of size, but important as a source of recreational fishing.

Consideration of intangible as well as tangible data has necessitated a method based on a series of judgment appraisals. Accordingly, factor ratings have been broadly outlined in the following pages in order that they might serve as a guide towards standardization of appraisal.

## Availability

(Roads - type, condition, proximity to stream, and

vehicular access to stream banks.

Stream access in terms of posting and availability to

use, natural factors such as brush, marshes,

canyons, and mud flats which might limit access.

Lodging and campsites - number, cost and convenience.

Location in reference to centers of human population.

(a) Good hard surface all-weather roads adjoin the entire stream and vehicular access to stream banks is possible at many places. The stream usually lies less than 1/4 mile from highway.

Good public campsites are available. Cars may be driven to stream bank at many places. Stream banks offer good sites for bank fishermen. Most of the land in this type of area probably is publicly owned. If, however, the land is privately owned, fishermen are never denied convenient access to the stream.

Immediate lodging facilities at reasonable rates are common. Streams in this category usually are located very near centers of population, thereby permitting use by many people with a minimum of travel.

(b) Stream availability similar to (a) above particularly as to the presence of good all-weather roads and land open to public access. One or two of the other features, however, would be unsatisfactory. For example, lodging facilities and campsites near the stream might not be adequate, or it might not be possible to drive vehicles close to the water, or stream morphometry might be such that mud flats, high banks, or treacherous currents deter some anglers, particularly children, women, and elderly people.

Streams in this category usually are located within 50 miles of major towns or other centers of population.

(c) Satisfactory road access to within 1/4 mile of most of the stream, but roads may be impassable during wet weather or blocked by snow for short periods during the fishing season.

Stream access is generally better than average but some portions of stream may be difficult of access due to natural conditions or due to posting.

Lodging or camping facilities may be limited in number or may be expensive.

In the western part of the Missouri River Basin, streams in this category usually are located within 50 to 100 miles of major centers of population.

(d) Good roads or highways generally do not approach within
4 or 5 miles of the stream. The access roads which do approach
the stream generally are in poor condition, passable only by
jeeps, pickups, and other high-center vehicles. In some cases,
vehicular access may not be possible within 2 or 3 miles of
the stream but good foot trails bring the area within a reasonable hiking distance for the more active anglers.

Many streams along good roads also would fall in this category if posting has made large areas inaccessible.

Natural conditions such as swamps, canyons, and possibly dense stands of stream-side brush may result in a (d) rating when they restrict fishing to only a few sites.

Lodging facilities are almost nonexistent.

Streams in this category usually are located at a distance of over 100 miles from major centers of population. Many streams fall into this category - particularly as a result of posting.

(e) Access only by pack trip, with no vehicular travel possible.

Access also may be severely restricted by stream location in a precipitous canyon or by other natural barriers.

Streams in this category usually are not located near population centers.

(f) Complete posting prohibits entry of general public.

### Esthetics

( Naturalness - including wilderness qualities.

( Beauty - attractiveness of surroundings, particularly considerations ( unique types of beauty.

( Usableness - climate and biological factors (pests).

- (a) A stream of outstanding natural beauty usually of a unique type and possessing wilderness characteristics.

  Streams usually clean and clear. Climatic characteristics such as to add to the pleasure of fishing.
- (b) A stream comparable to (a) above except that it usually lacks wilderness characteristics. Presence of a few human developments such as roads, farms, or commercial establishments usually would comprise the chief differences between (a) and (b). This type of stream usually has high use by tourists.

In some cases, however, the limiting consideration might be climatic or biological. Excessive rainfall, extreme cold or insect pests might be so bothersome as to limit esthetic value.

(c) A stream of considerable natural beauty but of a more common type than listed under (a) and (b). Clean and usually

clear streams flowing through attractive agricultural areas or rough lands with picturesque scenery. This type of stream often is favored by tourists.

- An area with average scenic or esthetic qualities.

  This type of stream is fairly common and has some attraction for nonresident tourists. The waters are clean, the scenery is appealing. The land is not abused. The area, however, lacks what usually are considered unusual or outstanding scenic qualities.
- (e) A stream with fair esthetic qualities. Water is often turbid. The surrounding country has only mediocre scenic appeal and is of common occurrence. The area generally would not be considered attractive to tourists but it may attract many people from surrounding regions where streams are scarce. A lack of stream-side cover often is apparent. Mud banks are common and stream flows occasionally may become so low as to expose extensive expanses of mud flats and sand bars.
- Waters are usually turbid, low flows are common, exposing mud flats and mud banks. Obnoxious domestic and industrial wastes may occur. Stream-side cover often is lacking. This type of stream's primary esthetic appeal usually lies in the fact that although it may not be attractive, it does offer local people an opportunity to get outdoors near some water. Use is mainly local.

A stream which is an eyesore, usually as a result of human negligence. Industrial and domestic wastes are apparent. The stream is obnoxiously polluted or dewatered. Garbage and junk often are in evidence. Industrial sites and poor-class housing often line the stream banks.

### Use

Expected number of fisherman days annually per mile of stream:

| fact | or ratings | examples                                |
|------|------------|---|
| (a)  | Over 1000  | Missouri River, Cascade to Holter Dam.  |
| (b)  | 500 - 1000 | Blackfoot River, mouth to Nevada Creek. |
| (c)  | 250 - 500  | Sixteen Mile Creek above Josephines     |
| (d)  | 100 - 250  | Red Rock Creek (above lake)             |
| (e)  | Under 100  | Clark Fork Columbia River, Bonner to    |
|      |            | Bonita R. S.                            |

# Productivity

Present biological and morphological qualities of the stream which determine its natural capacity to produce recreational fishes.

(Stream size - in terms of width rather than flow.

(Morphometry - interspersion of pools and riffles,

gradient, and barriers to fish migration.

(Cover - depth, boulders, undercut banks, vegetation.

(Spawning sites for useful fishes.

(Fish food - production of plankton, insects and crustaceans.

(Water quality - fertility, temperature and pollutants.

- (a) A large stream (river) of outstanding qualities approaching the ideal in capacity to produce useful fishes. Exceeds the top rating of most states.
- (b) A high quality stream which is well above average in most qualities. Sometime restricted in biological capacity because of more moderate size. Hardly a common type even in Montana.
- (c) A good quality stream many streams will be placed in this category.
- (d) A stream which is definitely below average in biological and morphological qualities a poor fish producer.
- (e) A very poor quality stream with little capacity to produce useful recreational fishes.

(Much difficulty was encountered under the "productivity" heading because there seemed to be no way to use a per acre basis. On a per acre basis the rating for some small streams would be very high while on a per mile basis these same productive little streams would be low. Since one of the main objectives for a classification is defense of streams being considered for dams or industrial use, there is merit in rating productivity on a per acre basis. More consideration needs to be given this matter.)

#### APPLICATION

There is no formula, chart, or graph that will permit a satisfactory inventory of recreational fishing streams without an

extensive knowledge of field conditions. Measurement of stream fisheries such as we are striving for in Montana involves considerations ranging from local to national levels. All water uses, all benefits, and the interest of all the people are fundamental.

To date the Committee has devoted all its efforts to devising a usable method for classifying the streams. We now propose to apply the method presented in this paper in the field and complete the classification of Montana streams and prepare a report by the end of this calendar year.

To illustrate how we expect to apply the scheme, the writer has applied it to the following streams. This is a preliminary classification only since it is subject to the review and approval of the entire committee.

Classification of Montana Streams According to Their Worth for Recreational Fishing A Tentative

| MAIN STEM of MISSOURI and TRIBUTARIES :River: Factor Rational States (Part 1 of 5):Miles: Avail. Esth. Use | River:<br>Miles: | Fa<br>1vail. | Factor Rating<br>• Esth. Use | a | Prod. | Stream: Class | i:<br>Remarks              |
|--|------------------|--------------|------------------------------|---|-------|---------------|----------------------------|
| Missouri R. from N. D. line to Ft. Peck Dam  | 189              | Φ            | Φ                            | υ | ಶ     | 5             |                            |
| Ft. Peck Reservoir (Max. pool)   |                  |              |                              |   |       |               |                            |
| Musselshell River below Ryegate  | 215              | ರ            | Φ                            | Φ | Φ     | 2             | No flow in drouth years.   |
| Musselshell R. from Ryegate to Harlowton   | 37               | Φ            | ರ                            | Φ | ъ     | 50            | No flow in drouth years.   |
| Musselshell R. from Harlowton to Durand Dam  | 04               | ъ            | ပ                            | O | م     | က             | Extensive diversions.      |
| South Fk. Musselshell R. above Martinsdale   | 10               | υ            | ರ                            | ပ | ъ     | 4             |                            |
| Missouri R. from Ft. Peck Res. to Morony Dam   | 180              | Φ            | ပ                            | Φ | υ     | 7             | Remote. No access winter   |
| Judith R. from Hobson to junction of forks   | 30               | υ            | ပ                            | ھ | م     | m             | or during we'd weather.    |
| Big Spring Creek (Lewistown)   | 8                | م            | ъ                            | م | ಥ     | a             | Best trout fishing this fa |
| Missouri River from Morony Dam to Ulm  | 94               | υ            | G-4                          | Φ | Φ     | 2             | east and north in Mont.    |
| Smith River from mouth to Newlan Creek   | 100              | Φ            | Ą                            | Φ | ಥ     | m             | Would be class 1 with free |
| Smith River from Newlan Creek to forks   | 113              | 4-1          | م                            | Φ | ပ     | 2             | account.                   |
| Sheep Greek  | 10               |              |                              |   |       | 4             |                            |
| Sun River from Vaughn to jct. of N.Fk. & S.Fk.   | 24               | Φ            | ರ                            | Φ | ರ     | °             |                            |
| N. Fk. Sun R. from mouth to Tepee Rings  | 20               | Φ            | ပ                            | Φ | ರ     | 5             |                            |

|  | :River: | E      | Factor Rating | Ratin  | ъ0    | :Stream:    | 0   |
|--|---------|--------|---------------|--------|-------|-------------|---|
| MAIN STEM of MISSOURI and TRIBUTARIES (Continued):Miles: |         | Avail. | Esth.         | Use    | Prod. | Prod.:Class | : Remarks   |
| N.Fk.Sun R. from Tepee Rings to Diversion Dam            | 9       | Φ      | υ             | Φ      | ರ     | ις.         |   |
| S. Fk. of N. Fk. of Sun R. above mouth                   | 15      | ರ      | ٩             | ි<br>් | O     | က           | Accessible at both ends.  |
| N. Fk. of N. Fk. of Sun R. above mouth                   | 20      | Φ      | ಹೆ            | Φ      | υ     | ო           | A wild river.   |
| Missouri River from Ulm to Cascade                       | 36      | д      | Ф             | ರ      | ပ     | 4           | Better fishing nearby hold  |
| Missouri River from Cascade to Holter Dam                | 56      | ಹ      | ပ             | ಥ      | ಥ     | ч           | class down.<br>Equal to Madison, larger                             |
| Little Prickly Pear Creek                                | 54      |        |               |        |       | ` <b>†</b>  | and year long fishing.  |
| Dearborn River from mouth to S. Fork                     | 20      | ਰ      | ပ             | ਰ      | ൽ     | Q           | nt fishing -  |
| Dearborn River above S. Fork                             | 30      | Φ      | Д             | ್ರ್    | ပ     | ന           | poor, rattlesnakes thick.   |
| Missouri R. from Townsend to Toston Dam                  | 19      | ಹ      | ರ             | ಯೆ     | ಥ     | Н           | Exceeds Madison, is much larger, and is open all                    |
| Missouri R. from Lombard to head of river                | 18      | 4      | Φ             | ರ      | ರ     | 77          | year.   |
| Sixteen Mile Creek below Josephine's                     | 18      | Φ      | Φ             | Φ      | б     | 10          | Extensive diversions and  |
| Sixteen Mile Creek above Josephine's                     | 12      | Φ      | <u>م</u>      | ರ      | លី    | m           | rattlesnakes Excellent fishing, access poor and rattlesnakes thick. |

|   | River: | L      | Factor Rating | Rating |       | :Stream: |                          |
|---|--------|--------|---------------|--------|-------|----------|--------------------------|
| THE THREE FORKS and TRIBUTARIES (Part 2 of 5)     | Miles: | Avail. | Esth.         | Use    | Prod. | :Class   | : Remarks                |
| Gallatin R. from mouth to Jct. of E. & W. Gal. R. | 7      | ರ      | ರ             | ပ      | ಹ     | m        | Big potential.           |
| East Gallatin River in its entirety               | 54     | Φ      | ပ             | ပ      | Q     | က        |                          |
| West Gallatin R. from mouth to Yellowstone N.P.   | 47     | ಹ      | យី            | م      | ۵     | N        | (Should be divided in 2  |
| Madison R. from mouth to Hot Springs Creek        | 25     | Q      | ರ             | ъ      | ಹೆ    | a        | preces.)                 |
| Madison R. from Hot Springs Cr. to Hebgen Dam     | 78     | ಹೆ     | Q             | លី     | ಹೆ    | ч        | Nationally recognized.   |
| Jefferson River from mouth to Sappington          | 18     | гď     | ರ             | ರ      | ರ     | 7        | fig                      |
| Jefferson R. above Sappington to head of river    | 94     | ပ      | ರ             | ပ      | م     | ന        | Very important winter    |
| Beaverhead River from mouth to Dillon             | 31     | ပ      | υ             | ပ      | ပ     | m        | ıısmıng.                 |
| Ruby River from mouth to Ruby Dam                 | 30     | υ      | ပ             | ပ      | ပ     | n        |                          |
| Ruby River above Ruby Reservoir                   | 25     | Φ      | Q             | ರ      | ဎ     | က        |                          |
| Beaverhead R. from Dillon to head of river        | 31     | υ      | υ             | Q      | ಥ     | α        |                          |
| Blacktail Creek above P. & O. Headquarters        | 15     | Φ      | ပ             | ರ      | ပ     | 4        | Strict posting, small    |
| Red Rock River from mouth to Dell                 | 80     | ပ      | υ             | ပ      | ပ     | m        | Extensive diversions.    |
| Big Sheep Cr. from Ranger Station to forks        | 70     | ပ      | م             | م      | ပ     | ന        |                          |
| Red Rock River from Dell to Lima Dam              | 50     | ರ      | ರ             | ರ      | ဎ     | 4        | flows i                  |
| Odell Creek                                       | 10     | Φ      | ٩             | Φ      | ъ     | 4        | Good greyling. Brush and |
| Red Rock Creek                                    | 15     | Φ      | Д             | ပ      | ď     | 4        | HOOSE THE GCGGSS.        |

|  | :River:                                | FB    | Factor Rating | ating |        | :Stream: |                         |
|--|--|-------|---------------|-------|--------|----------|-------------------------|
| THE THREE FORKS and TRIBUTARIES (Continued)  | :Miles: Avail. Esth. Use Prod.: Class: | wail. | Esth.         | Use   | Prod.  | Class    | Remarks                 |
| Flk Springs Creek  | 5                                      | υ     | ဎ             | υ     | υ      | 4        |                         |
|  |  |       |               |       |        |          |                         |
| Horse Prairie Cr. from mouth to Black Canyon Creek   | 80                                     | ъ     | ပ             | ď     | و<br>ت | 4        | Much posting and brush. |
| Total months of the state of th | 78                                     | 2,    | Ļ             | d     | 0      |          | Similar to Modian       |
| DIE HOLE IN TIOM MOUND OF LINEAR CIECK   | 2                                      | 2     | 2             | ಕ     | đ      | 1        | but wear long fishing.  |
| Wise River   | 22                                     | ပ     | م             | ರ     | Φ      | †        |                         |
| Big Hole R. from Pintlar Cr. to Jackson  | 33                                     | ပ     | م             | ပ     | Q      | ณ        | × 1                     |

| THE YELLOWSTONE and TRIBUTARIES                           | :River: | Fact   | Factor Rating | ing | 0.2          | :Stream: |                                  |
|---|---------|--------|---------------|-----|--------------|----------|----------------------------------|
| (Part 3 of 5):Miles:                                      |         | Avail. | Esth, Use     | Use | Prod.: Class | lass     | Remarks                          |
| Yellowstone R. Mont. from N.D. line to<br>Pompey's Pillar | 294     | ď      | Φ             | Φ   | Φ            | 2        |                                  |
| Yellowstone R. from Laurel to Big Timber                  | 72      | ပ      | ပ             | ಥ   | م            | C)       | Big river, yr.long fishing.      |
| Clark Fork from Edgar to state line                       | 53      | ರ      | Φ             | Φ   | ರ            | 7        | Turbid from irrig. returns.      |
| Rock Creek from mouth to Fox                              | 04      | ပ      | ರ             | ပ ေ | Д            | က        | Extensive diversions.            |
| Stillwater R. in its entirety                             | 20      | ပ      | ರ             | ಥ   | م            | N        | Considerable posting.            |
| East Rosebud in its entirety                              | 36      | υ      | ပ             | ပ   | ပ            | m        |                                  |
| West Rosebud in its entirety                              | 30      | υ      | ပ             | ပ   | ပ            | m        |                                  |
| Boulder River from mouth upstream(Big Timber)             | 36      | م      | ပ             | م   | ပ            | m        | Much posting lower 15 mi.        |
| West Fork Boulder   | 20      | ္ပပ    | ۵             | ರ   | م            | m        |                                  |
| Yellowstone R.from Big Timber to Yellowstone N.P.         | 103     | លី     | ಹ             | م   | ಥ            | <u>,</u> | Huge potential & yr. long        |
| Shields R. from mouth to Cottonwood Creek                 | 18      | ဎ      | Φ             | ರ   | ပ            | 4        | High in productivity but         |
|   |         |        |               |     |              |          | drversions keep stream<br>small. |

|   | :River:   | Facto          | Factor Rating | îng |             | :Stream: | n:                          |
|---|-----------|----------------|---------------|-----|-------------|----------|-----------------------------|
| (Part 4 of 5);M   | :Miles: A | Avail.         | Esth.         | Use | Prod.:Class | Class    | : Remarks                   |
| Clark Fk. of Columbia fr. Trout Cr. to Flathead R.                | 19        | ರ              | ಥ             | υ   | ਾਹ          | m        |                             |
| Thompson R. from mouth to Bend Guard Station                      | 93        |                |               |     |             | m        |                             |
| Clark Fork of Columbia fr.Flathead R.to Bonner Dam                | 120       | ರ              | ಥ             | で   | O           | m        |                             |
| Flathead R. from mouth to Kerr Dam                                | 73        | ಸ              | ပ             | ъ   | ပ           | m        |                             |
| Jocko R. from mouth to lower lake                                 | 35        | ۳۵             | υ             | ပ   | ပ           | m        |                             |
| Flathead R. fr. Flathead F. to jct. of N.<br>& Middle Forks       | 45        | ಥ              | ಹ             | Д   | ۵           | ч        | Big stresm - big potential. |
| N. Fork Flathead mouth to intnl. bndry.                           | 61        | ۾              | ಥ             | ъ   | ರ           | a        |                             |
| Middle Fork Flathead mouth to Nimrod                              | 24        | -,0            | ಹೆ            | σ   | ъ           | N        |                             |
| Middle Fork Flathead R. Nimrod to Cox Cr.                         | 30        | Φ              | ಥ             | Ø   | ပ           | ч        | A wild, primitive river.    |
| South Fk. Flathead, head of Hungry Horse<br>Res. to Danaher Creek | 9         | 70 <b>U</b> 77 | م             | Φ   | ۾           | N        | A wild river, good Ct.      |
| Swan River fr. Swan Lake to head of river                         | 34        | ਰ              | ಥ             | ъ   | ပ           | Ø        |                             |
| Bitteroot R. mouth to Connor                                      | 8         | O fi           | ပ             | ပ   | ಹ           | α        |                             |
| Clark Fork Columbia R. fr. Bonner Dam to BonitaR.S.               | 16        | ъ              | ပ             | ψ   | σ           | 5        | Barely supports trout       |
| Blackfoot R. from mouth to Nevada Cr.                             | 49        | ಹ              | υ             | U   | م           | Q        | drifting in irom tribs.     |
| Clearwater R. from mouth to Rainy L.                              | 8         | ರ              | ಥ             | ರ   | م           | m        | Excellent Ct., brush &      |
| North Fk. Blackfoot R. in its entirety                            | 54        | υ              | ល             | ۳d  | υ           | m        | • 807 1780                  |
| Little Blackfoot R. fr. mouth to Elliston                         | 25        | ۵              | ပ             | ပ   | م           | m        | Extensive diversions.       |
| Rock Cr. from mouth to West Fork                                  | 20        | م              | م             | ۵   | ۵           | a        |                             |

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| THE KOOTENAI and TRIBUTARIES                               | (Part 5 of 5) | :River: Factor Rating 5 of 5):Miles: Avail. Esth. Use | :Stream:<br>Prod.:Class : | Remarks |                 |
|--|---------------|---|---------------------------|---------|-----------------|
| Kootenai R. from MontIda. line to<br>International Boundry | ine to        | 100   | ന                         |         | ( <del>J.</del> |
| Yaak R. from mouth to West Fork                            | Fork          | 39 д в д  | C4                        |         | (5)             |
|  |               |   |                           |         | ,               |
|  |               | RECAP   |                           |         |                 |
|  | Class         | No. of streams  | River Mi.                 |         |                 |
|  | ı             | 7   | 379                       |         |                 |
|  | CJ.           | 16  | 765                       |         |                 |
|  | m             | 30  | 1100                      |         |                 |
|  | 4             | 14  | 236                       |         |                 |
|  | 5             | 19  | 5299                      |         | N V             |
|  | Totals        | %   | 6124                      |         |                 |
|  |               |   |                           |         |                 |

#### CONCLUSIONS

It should be noted that no stream is likely to receive a maximum rating (a) in all factors. This is true because high ratings ordinarily are mutually exclusive. For example: a maximum rating in Use or Availability probably would preclude a maximum rating in esthetics.

This situation, however, does not preclude the classification of a stream at the maximum or as a Class I stream. Streams may be assigned to a given class for several reasons. For example, either a combination of generally good factor ratings or a maximum rating in one factor could be sufficient justification to place a stream in Class I.

In a broad system of stream classification, particularly when judgment appraisal must serve as the basis, it is almost impossible to explicitly define all considerations.

Accordingly, the factor definitions do overlap and are not strictly definitive. Furthermore, classification of streams by the method outlined herewith will not necessarily result in agreement among individuals.

The method, nevertheless, has certain values. These values lie primarily in the fact that the method serve to identify the major factors which must be considered in classification of streams, and identifies specific differences in judgment among individual appraisers. As a result it may be possible to form a common basis for our thinking

and provide a more tangible approach to stream classification. An inventory and appraisal of the fishing potentialities of Montana streams would constitute an important step in the direction of long range planning for conservation of the resource and at the same time a long overdue contribution to comprehensive planning. We could graduate from our "back row" position to one where we would have our feet under the table in planning for the best use of our waters.